

21. The composition of Claim 20 wherein said mesenchymal stem cell further includes exogenous genetic material that encodes interferon- γ .

22. The composition of Claim 19 wherein the co-stimulatory molecule is selected from the group consisting of B7-1 and B7-2.

23. The composition of Claim 19 wherein the exogenous antigen is selected from the group consisting of a protein, a polypeptide, a glycolipid, and a lipid.

24. The composition of Claim 19 wherein the mesenchymal stem cell was modified by contact with the exogenous antigen fragment or an antigen including said fragment.

25. The composition of Claim 19 wherein the mesenchymal stem cell contains exogenous genetic material that encodes the exogenous antigen fragment or an antigen including said fragment.

26. The composition of Claim 25 wherein said exogenous genetic material is contained in an expression vector.

27. The composition of Claim 19 wherein the mesenchymal stem cell includes exogenous genetic material that encodes said at least one co-stimulatory molecule.

28. The composition of Claim 27 wherein said exogenous genetic material encoding said at least one co-stimulatory molecule is contained in an expression vector.

29. A composition comprising a cell of the adipocyte lineage that expresses at least one co-stimulatory molecule and has been modified to have at least one exogenous antigen fragment bound to a primary surface molecule of said cell such that said at least one antigen is presented to initiate an immune response.

30. The composition of Claim 29 wherein said primary surface molecule is selected from the group consisting of MHCII, MHCI, and CD1.

31. The composition of Claim 30 wherein said member is MHCII and said cell has been treated with interferon- γ .

32. The composition of Claim 31 wherein said cell further includes exogenous genetic material that encodes interferon- γ .

33. The composition of Claim 29 wherein the co-stimulatory molecule is selected from the group consisting of B7-1 and B7-2.

34. The composition of Claim 29 wherein the exogenous antigen is selected from the group consisting of a protein, a polypeptide, a glycolipid, and a lipid.

35. The composition of Claim 29 wherein the cell was modified by contact with the exogenous antigen fragment or an antigen including said fragment.

36. The composition of Claim 29 wherein the cell contains exogenous genetic material that encodes the exogenous antigen fragment or an antigen including said fragment.

37. The composition of Claim 36 wherein said exogenous genetic material is contained in an expression vector.

38. The composition of Claim 29 wherein the cell includes exogenous genetic material that encodes said at least one co-stimulatory molecule.

39. The composition of Claim 38 wherein said exogenous genetic material encoding said at least one co-stimulatory molecule is contained in an expression vector.